

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060324\  
 Data File : BG061421.D  
 Acq On : 3 Jun 2024 13:21  
 Operator : MA/JU  
 Sample : P2588-10DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH5T9DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut  
 Upadhyay  
 06/04/2024

Supervised By :mohammad  
 ahmed  
 06/05/2024

Quant Time: Jun 03 23:26:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.870  | 152  | 24348    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.667 | 136  | 94445    | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.510 | 164  | 75281    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.259 | 188  | 189255   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.513 | 240  | 203127   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.598 | 264  | 227579   | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.329  | 96   | 519      | 1.193  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.746  | 84   | 4056     | 2.620  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.059  | 99   | 9434     | 4.718  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.200  | 67   | 6328     | 5.035  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.412  | 132  | 8204     | 5.544  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.593  | 113  | 6504     | 3.815  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.034  | 128  | 3926     | 5.399  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.762  | 143  | 4882     | 5.737  | ng/u1  | 0.01     |
| 28) 2,4-Dichlorophenol-d3     | 10.314 | 165  | 8327     | 5.019  | ng/u1  | 0.01     |
| 31) 4-Chloroaniline-d4        | 10.808 | 131  | 3439     | 1.584  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.910 | 166  | 32411    | 5.551  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.198 | 160  | 35236    | 5.805  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.762 | 143  | 2375m    | 3.290  | ng/u1  | 0.02     |
| 60) Fluorene-d10              | 15.502 | 176  | 29745    | 5.901  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/u1  |          |
| 73) Anthracene-d10            | 17.359 | 188  | 52041    | 6.237  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.651 | 212  | 63897    | 6.126  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.386 | 264  | 67953    | 6.211  | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 52) Acenaphthene              | 14.568 | 153  | 10322    | 2.338  | ng/u1  | 89       |
| 56) Dibenzofuran              | 14.909 | 168  | 11241    | 1.781  | ng/u1  | 92       |
| 61) Fluorene                  | 15.561 | 166  | 14875    | 2.723  | ng/u1  | 94       |
| 72) Phenanthrene              | 17.300 | 178  | 252863   | 27.528 | ng/u1  | 98       |
| 74) Anthracene                | 17.394 | 178  | 59010    | 6.213  | ng/u1  | 98       |
| 77) Carbazole                 | 17.665 | 167  | 17341    | 2.245  | ng/u1  | 95       |
| 80) Fluoranthene              | 19.322 | 202  | 446136   | 35.657 | ng/u1  | 99       |
| 82) Pyrene                    | 19.680 | 202  | 400382   | 30.829 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.495 | 228  | 237146   | 16.920 | ng/u1  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.401 | 149  | 13116    | 1.986  | ng/u1  | 100      |
| 87) Chrysene                  | 21.560 | 228  | 213886m  | 16.573 | ng/u1  |          |
| 90) Benzo(b)fluoranthene      | 23.628 | 252  | 247619   | 18.275 | ng/u1  | 97       |
| 91) Benzo(k)fluoranthene      | 23.681 | 252  | 81475    | 5.923  | ng/u1# | 89       |
| 93) Benzo(a)pyrene            | 24.457 | 252  | 180145   | 14.001 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.094 | 276  | 109951   | 7.066  | ng/u1# | 94       |
| 95) Dibenzo(a,h)anthracene    | 28.135 | 278  | 32597m   | 2.541  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.186 | 276  | 92364m   | 7.462  | ng/u1  |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060324\  
Data File : BG061421.D  
Acq On : 3 Jun 2024 13:21  
Operator : MA/JU  
Sample : P2588-10DL 5X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

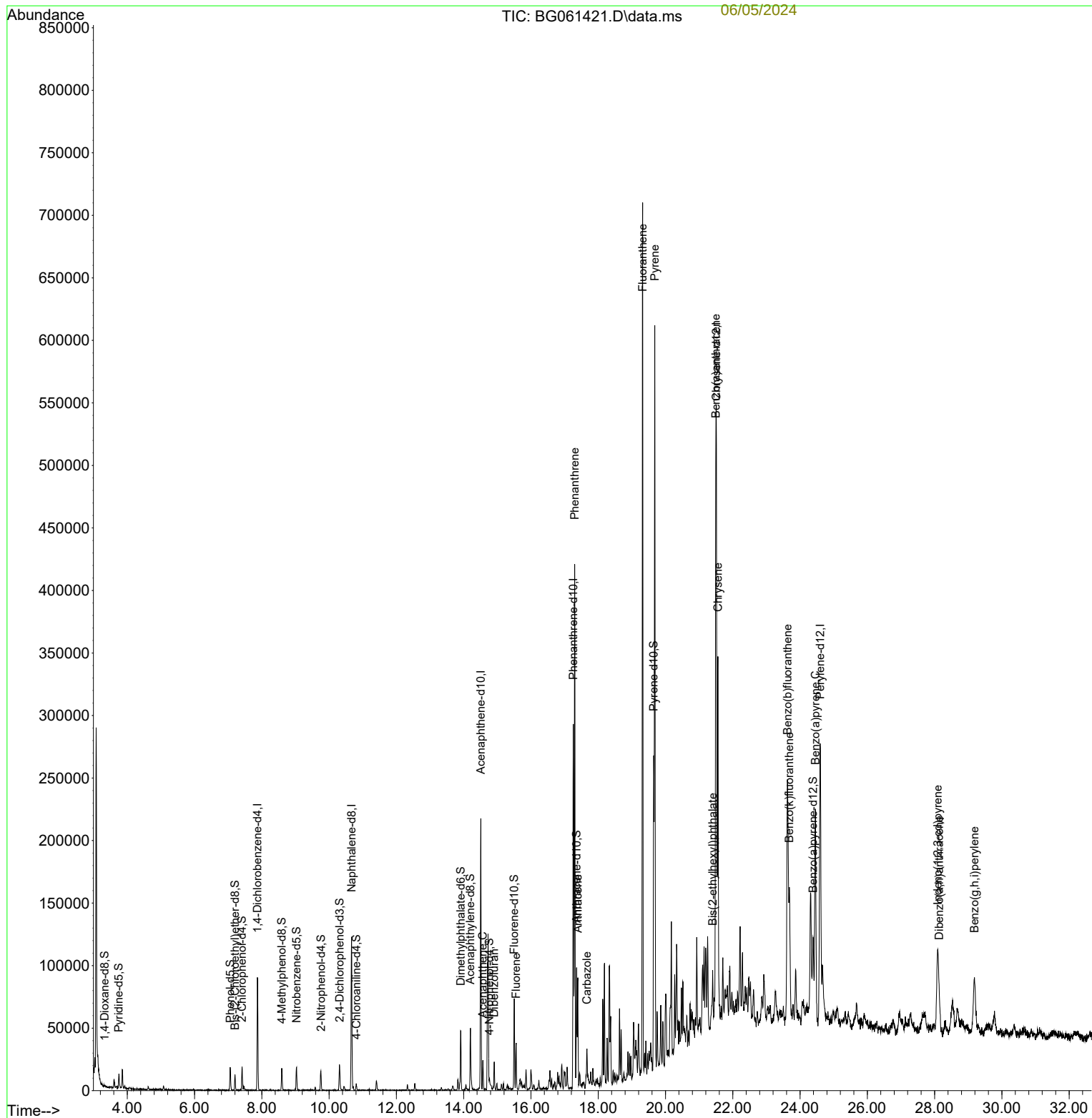
Instrument :  
BNA\_G  
ClientSampleId :  
BH5T9DL

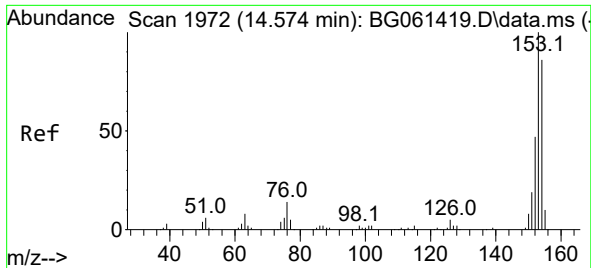
Quant Time: Jun 03 23:26:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay  
06/04/2024

Supervised By :mohammad  
ahmed  
06/05/2024





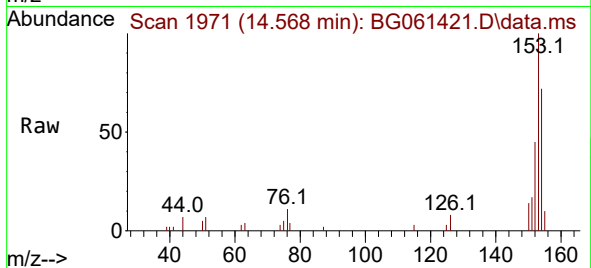
#52  
Acenaphthene  
Concen: 2.338 ng/ul  
RT: 14.568 min Scan# 1972  
Delta R.T. -0.005 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Instrument :

BNA\_G

ClientSampleId :

BH5T9DL



Tgt Ion:153 Resp: 1032  
Ion Ratio Lower Upper  
153 100  
152 44.8 37.8 56.8  
154 72.2 69.0 103.6

Manual Integrations

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Reviewed By :Jagrut

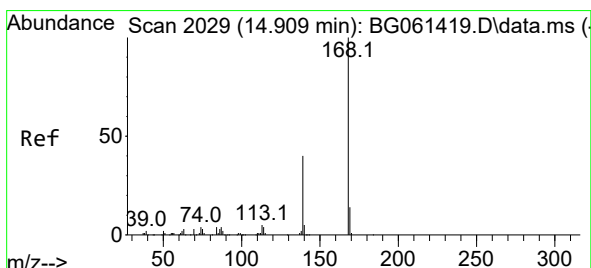
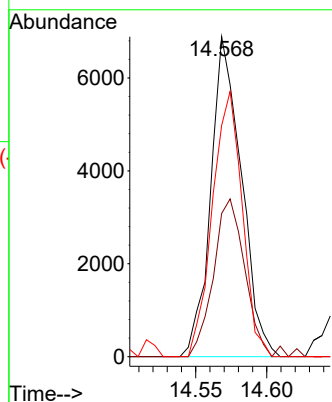
Upadhyay

06/04/2024

Supervised By :mohammad

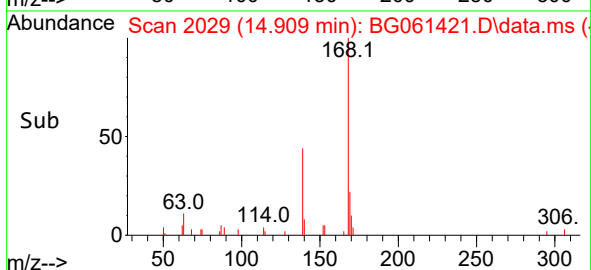
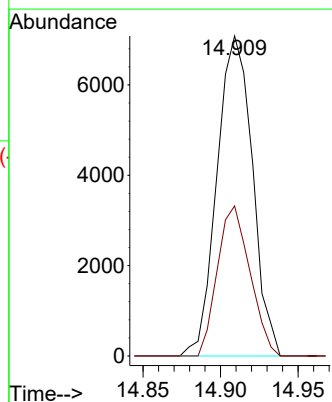
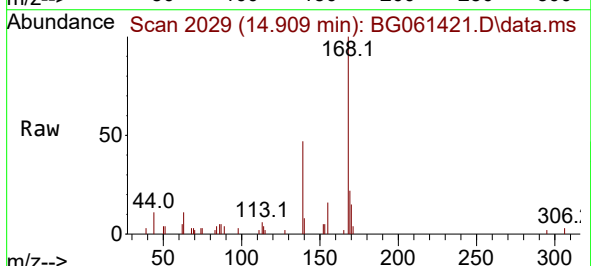
ahmed

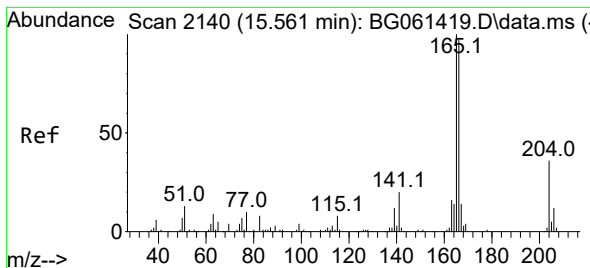
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#56  
Dibenzofuran  
Concen: 1.781 ng/ul  
RT: 14.909 min Scan# 2029  
Delta R.T. 0.001 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

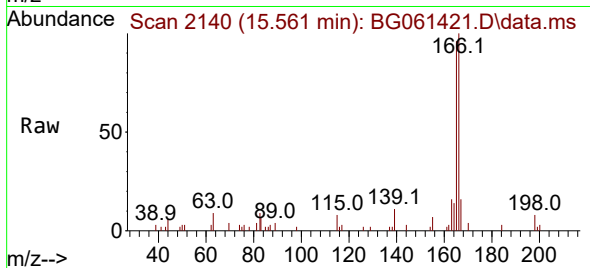
Tgt Ion:168 Resp: 11241  
Ion Ratio Lower Upper  
168 100  
139 46.9 33.4 50.2





#61  
Fluorene  
Concen: 2.723 ng/ul  
RT: 15.561 min Scan# 2140  
Delta R.T. 0.001 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Instrument :  
BNA\_G  
ClientSampleId :  
BH5T9DL

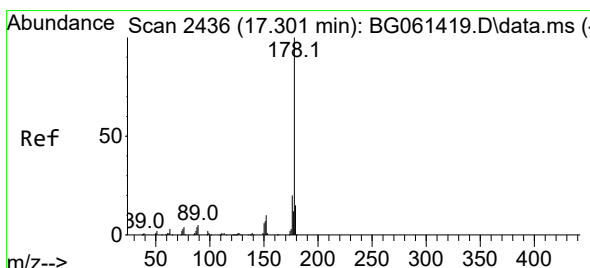
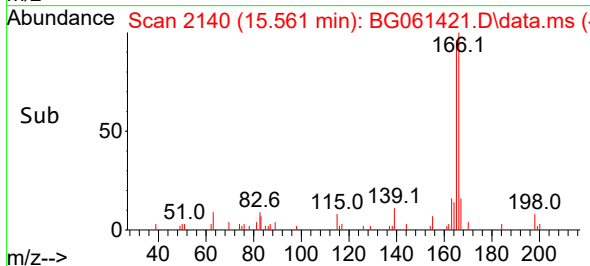
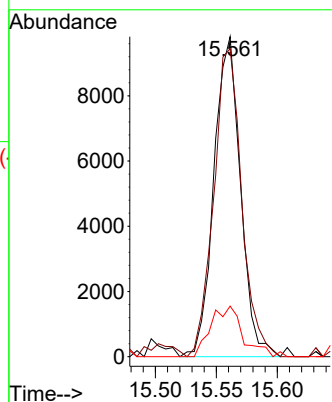


Tgt Ion:166 Resp: 1487  
Ion Ratio Lower Upper  
166 100  
165 96.2 81.8 122.8  
167 15.8 10.6 16.0

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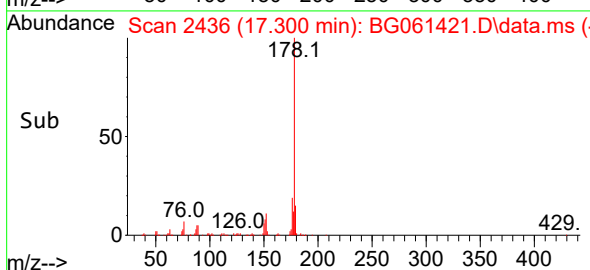
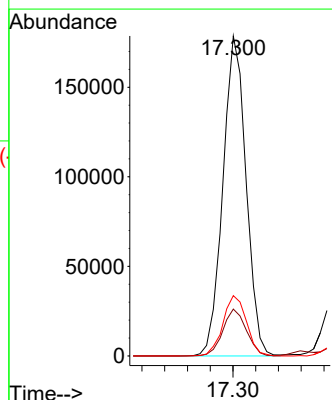
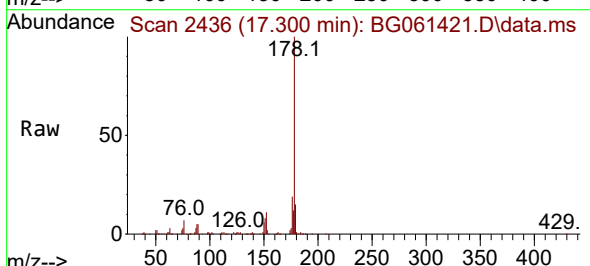
Reviewed By :Jagrut  
Upadhyay  
06/04/2024

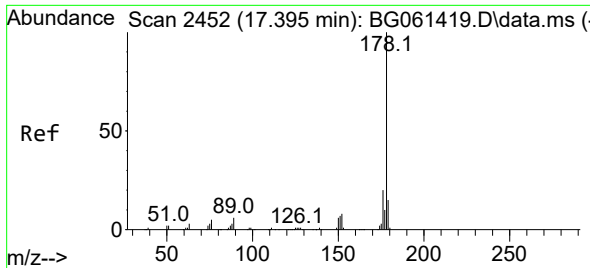
Supervised By :mohammad  
ahmed  
06/05/2024



#72  
Phenanthrene  
Concen: 27.528 ng/ul  
RT: 17.300 min Scan# 2436  
Delta R.T. 0.001 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Tgt Ion:178 Resp: 252863  
Ion Ratio Lower Upper  
178 100  
179 14.7 12.7 19.1  
176 18.9 15.5 23.3





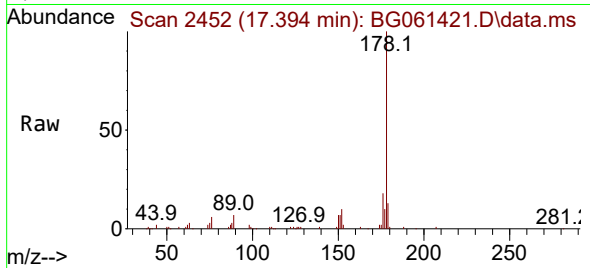
#74  
 Anthracene  
 Concen: 6.213 ng/uI  
 RT: 17.394 min Scan# 2452  
 Delta R.T. 0.001 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21

Instrument :

BNA\_G

ClientSampleId :

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Tgt Ion:178 Resp: 59010  
 Ion Ratio Lower Upper  
 178 100  
 179 12.9 11.8 17.6  
 176 18.2 14.9 22.3

Manual Integrations

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Reviewed By :Jagrut

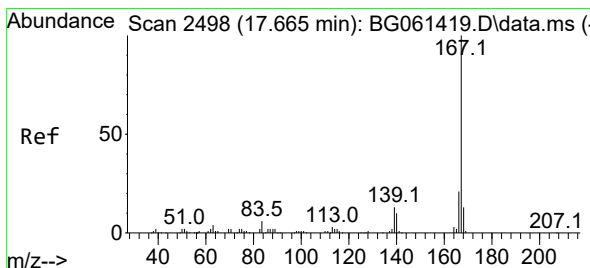
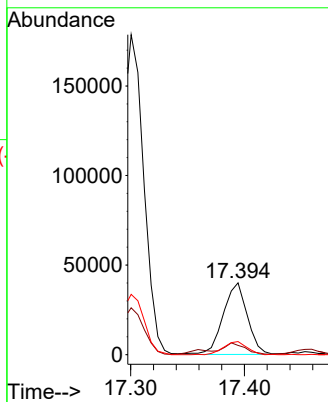
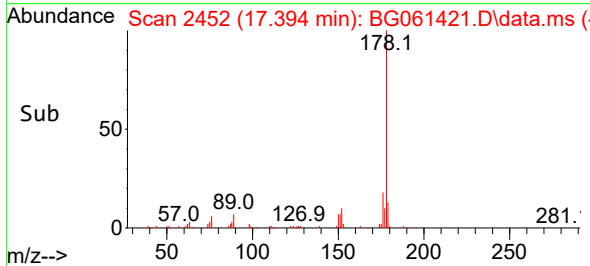
Upadhyay

06/04/2024

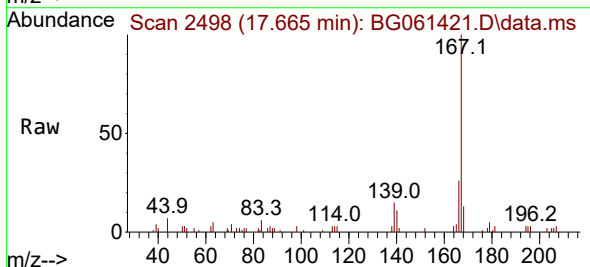
Supervised By :mohammad

ahmed

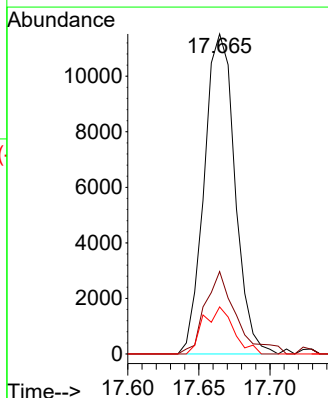
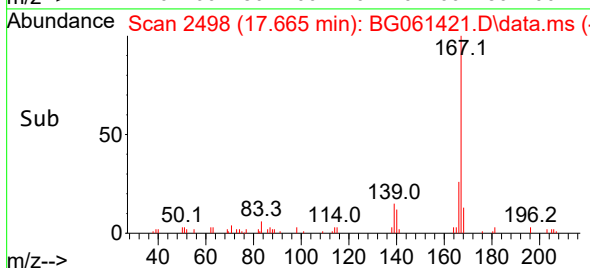
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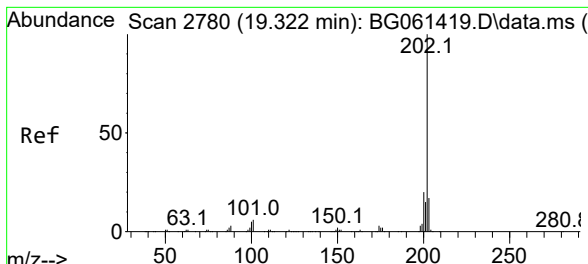


#77  
 Carbazole  
 Concen: 2.245 ng/uI  
 RT: 17.665 min Scan# 2498  
 Delta R.T. 0.001 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21



Tgt Ion:167 Resp: 17341  
 Ion Ratio Lower Upper  
 167 100  
 166 25.7 18.6 28.0  
 139 14.7 10.6 15.8





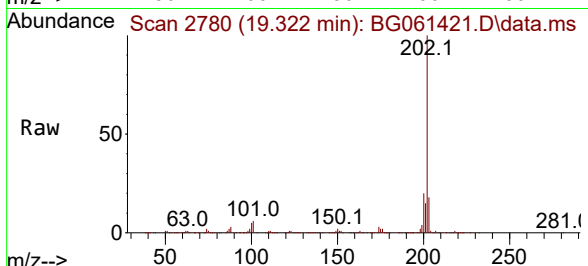
#80  
 Fluoranthene  
 Concen: 35.657 ng/u1  
 RT: 19.322 min Scan# 21  
 Delta R.T. 0.007 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21

Instrument :

BNA\_G

ClientSampleId :

BH5T9DL

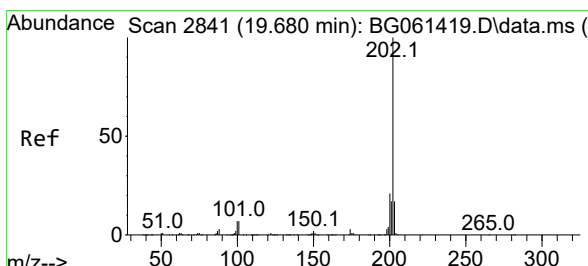
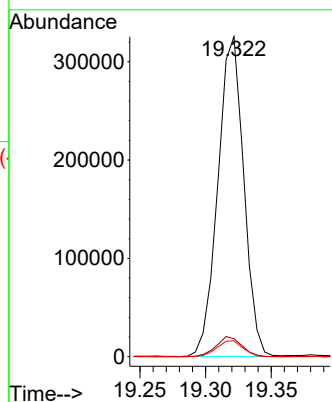


|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 446130 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 5.6   | 4.8   | 7.2    |
| 100       | 5.0   | 4.1   | 6.1    |

Manual Integrations  
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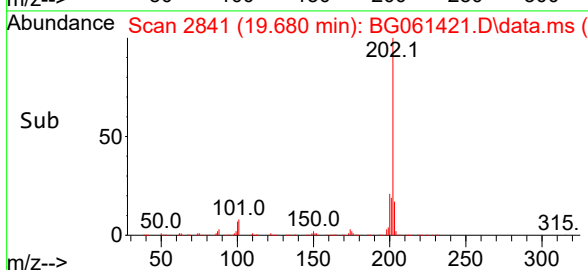
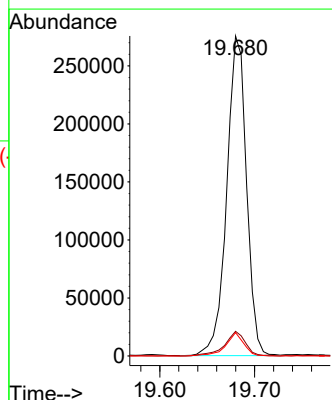
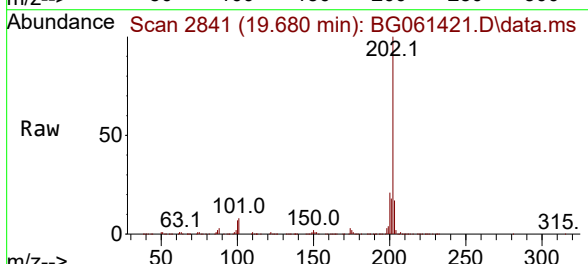
Reviewed By :Jagrut  
 Upadhyay  
 06/04/2024

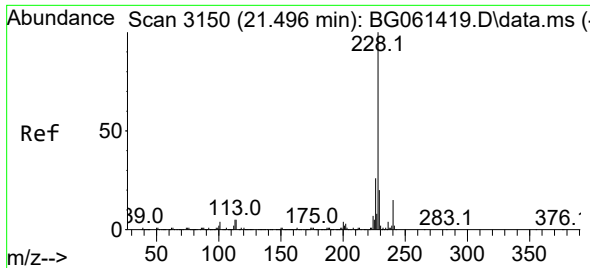
Supervised By :mohammad  
 ahmed  
 06/05/2024



#82  
 Pyrene  
 Concen: 30.829 ng/u1  
 RT: 19.680 min Scan# 2841  
 Delta R.T. 0.001 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21

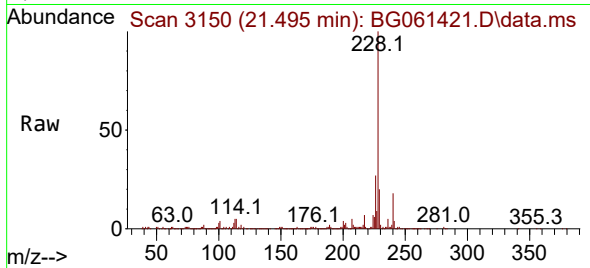
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 400382 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.7   | 5.7   | 8.5    |
| 100       | 7.3   | 5.1   | 7.7    |





#85  
Benzo(a)anthracene  
Concen: 16.920 ng/ul  
RT: 21.495 min Scan# 3150  
Delta R.T. 0.001 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Instrument :  
BNA\_G  
ClientSampleId :  
BH5T9DL

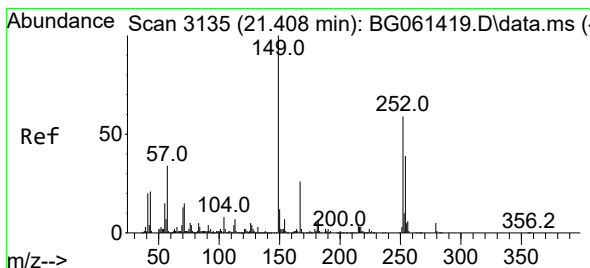
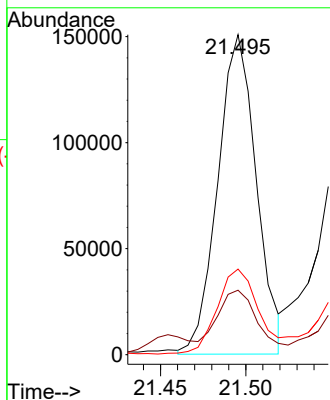
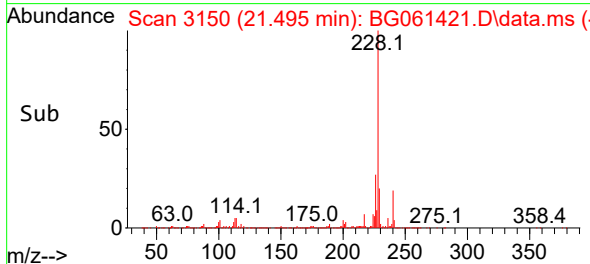


Tgt Ion:228 Resp: 237140  
Ion Ratio Lower Upper  
228 100  
229 20.2 15.2 22.8  
226 26.8 21.4 32.2

Manual Integrations  
APPROVED

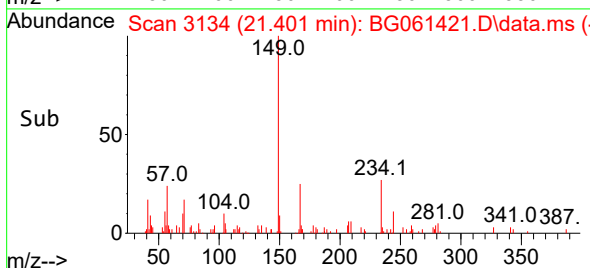
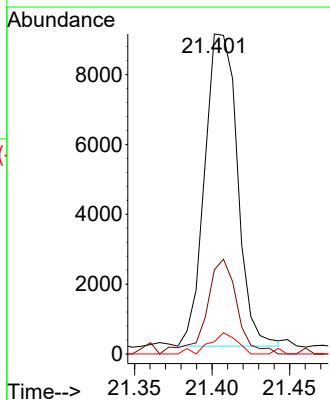
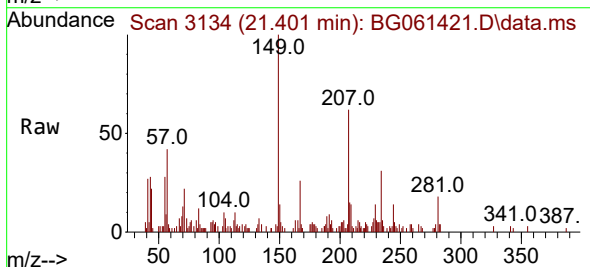
Reviewed By :Jagrut  
Upadhyay  
06/04/2024

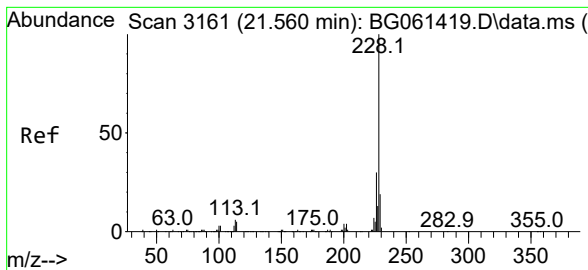
Supervised By :mohammad  
ahmed  
06/05/2024



#86  
Bis(2-ethylhexyl)phthalate  
Concen: 1.986 ng/ul  
RT: 21.401 min Scan# 3134  
Delta R.T. -0.005 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

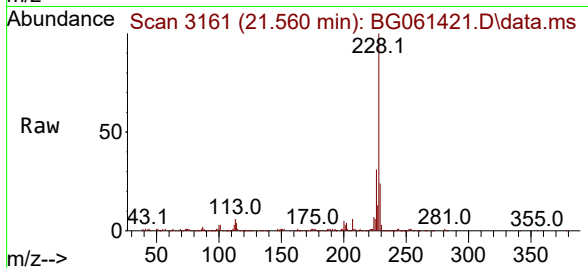
Tgt Ion:149 Resp: 13116  
Ion Ratio Lower Upper  
149 100  
167 26.3 21.1 31.7  
279 3.8 3.3 4.9





#87  
**Chrysene**  
 Concen: 16.573 ng/ul m  
 RT: 21.560 min Scan# 3161  
 Delta R.T. 0.007 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 BH5T9DL



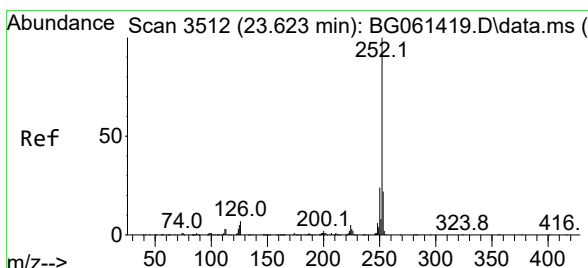
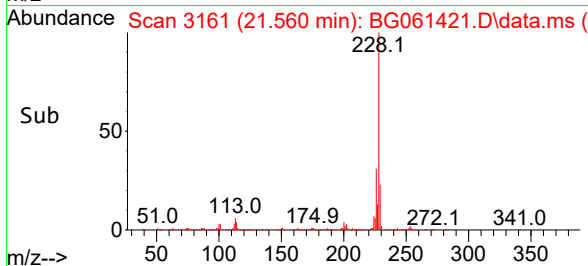
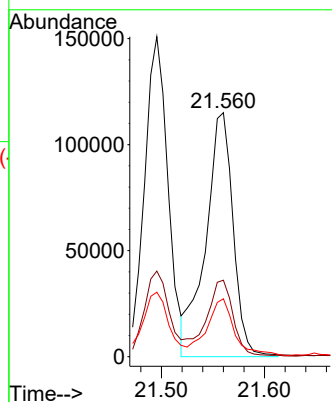
Tgt Ion:228 Resp: 213880  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.3  | 23.4  | 35.0  |
| 229 | 23.8  | 15.4  | 23.2  |

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 Upadhyay  
 06/04/2024

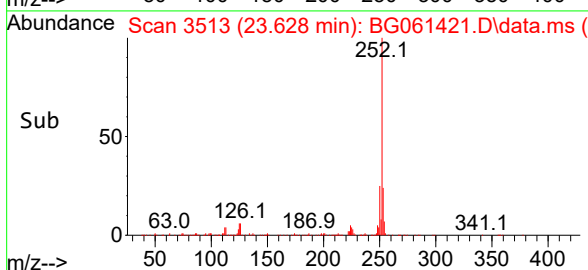
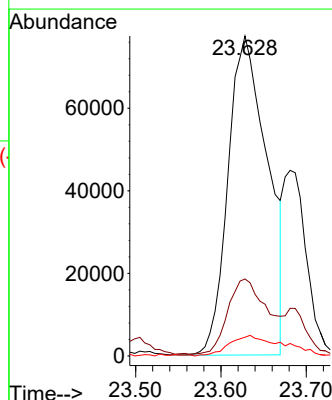
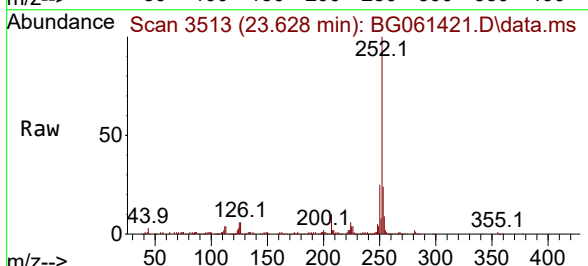
Supervised By :mohammad  
 ahmed  
 06/05/2024



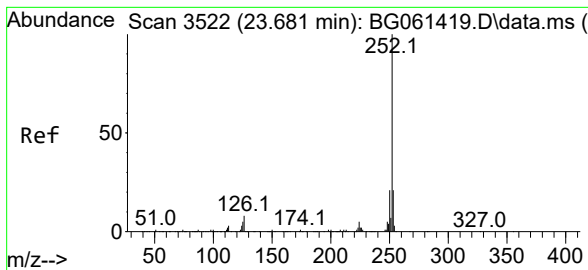
#90  
**Benzo(b)fluoranthene**  
 Concen: 18.275 ng/ul  
 RT: 23.628 min Scan# 3513  
 Delta R.T. 0.013 min  
 Lab File: BG061421.D  
 Acq: 3 Jun 2024 13:21

Tgt Ion:252 Resp: 247619  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.0  | 17.8  | 26.8  |
| 125 | 5.9   | 4.6   | 6.8   |

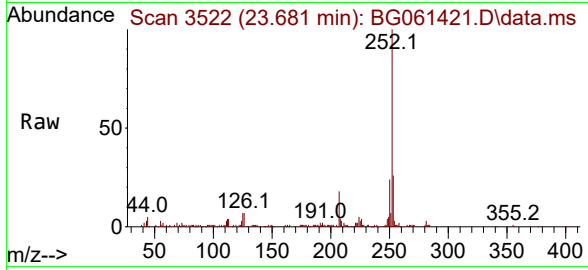






#91  
Benzo(k)fluoranthene  
Concen: 5.923 ng/ul  
RT: 23.681 min Scan# 3522  
Delta R.T. 0.001 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Instrument :  
BNA\_G  
ClientSampleId :  
BH5T9DL

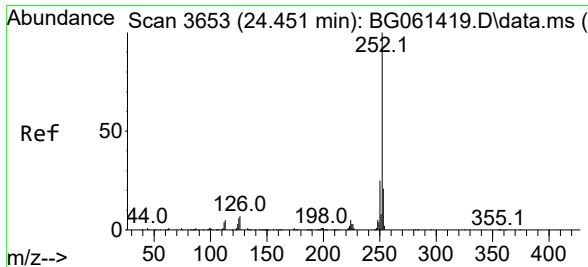
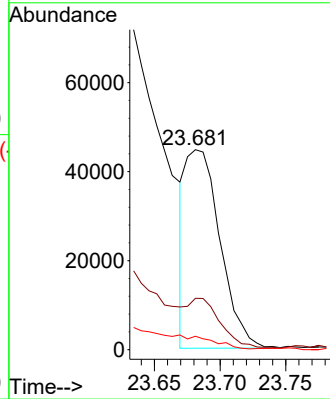
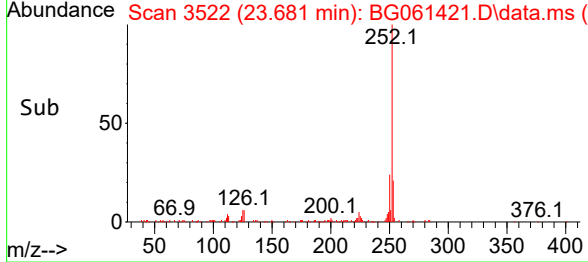


Tgt Ion:252 Resp: 81475  
Ion Ratio Lower Upper  
252 100  
253 25.7 16.0 24.0  
125 6.8 4.3 6.5

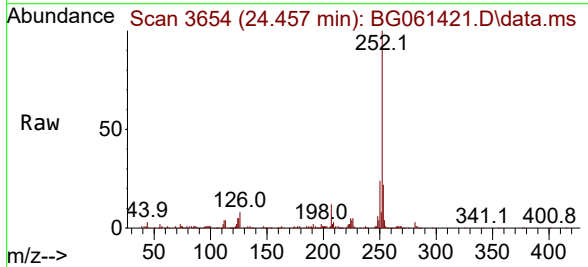
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay  
06/04/2024

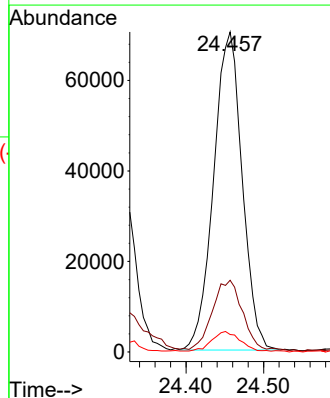
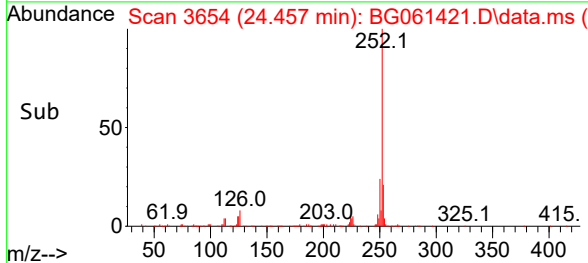
Supervised By :mohammad  
ahmed  
06/05/2024

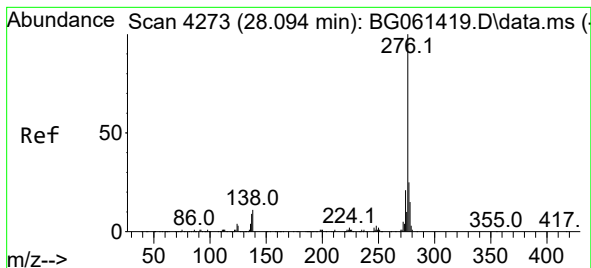


#93  
Benzo(a)pyrene  
Concen: 14.001 ng/ul  
RT: 24.457 min Scan# 3654  
Delta R.T. 0.007 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21



Tgt Ion:252 Resp: 180145  
Ion Ratio Lower Upper  
252 100  
253 22.4 16.4 24.6  
125 5.5 4.3 6.5





#94

Indeno(1,2,3-cd)pyrene

Concen: 7.066 ng/ul

RT: 28.094 min Scan# 41

Delta R.T. 0.001 min

Lab File: BG061421.D

Acq: 3 Jun 2024 13:21

Instrument :

BNA\_G

ClientSampleId :

BH5T9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 10995 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 15.4  | 8.6   | 13.0  |
| 277       | 26.0  | 19.7  | 29.5  |

Manual Integrations

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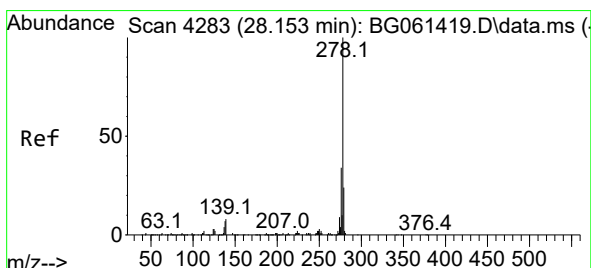
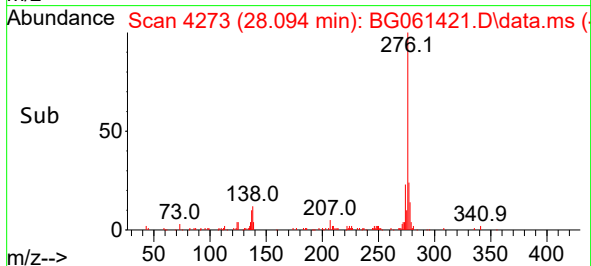
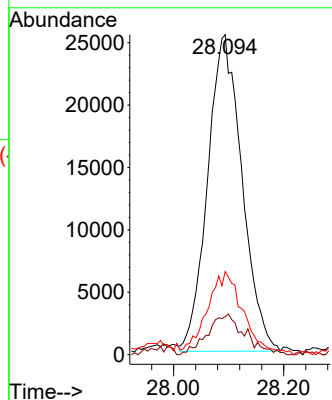
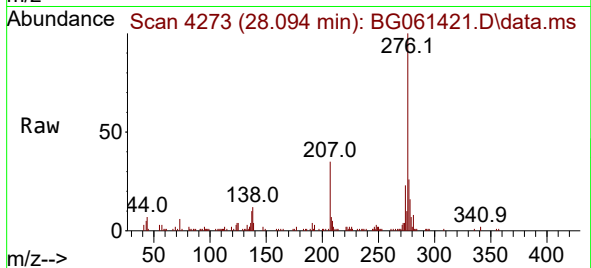
Upadhyay

06/04/2024

Supervised By :mohammad

ahmed

06/05/2024



#95

Dibenzo(a,h)anthracene

Concen: 2.541 ng/ul m

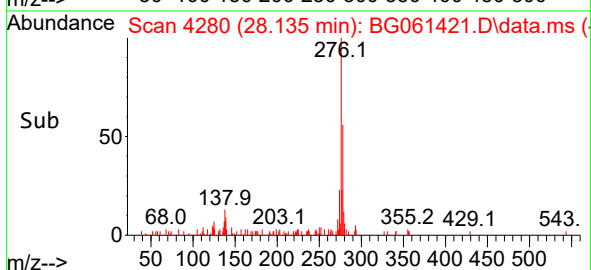
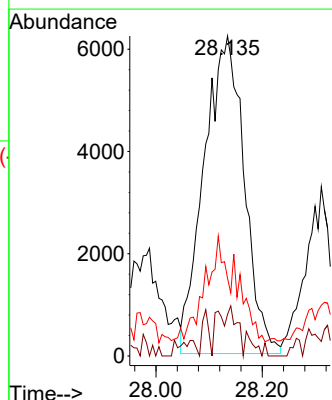
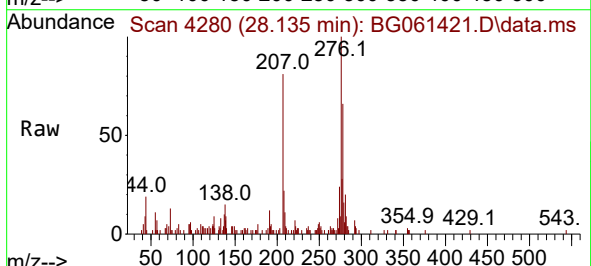
RT: 28.135 min Scan# 4280

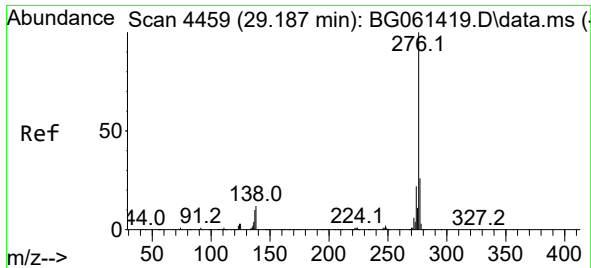
Delta R.T. -0.005 min

Lab File: BG061421.D

Acq: 3 Jun 2024 13:21

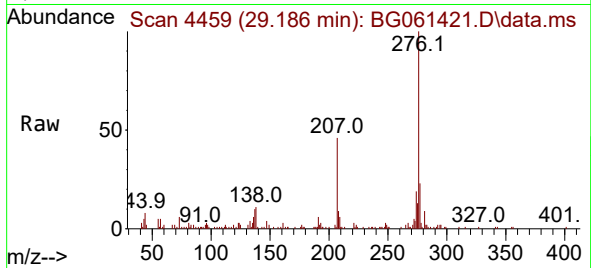
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 32597 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 13.0  | 6.4   | 9.6   |
| 279       | 24.3  | 19.9  | 29.9  |





#96  
Benzo(g,h,i)perylene  
Concen: 7.462 ng/ul m  
RT: 29.186 min Scan# 44  
Delta R.T. 0.013 min  
Lab File: BG061421.D  
Acq: 3 Jun 2024 13:21

Instrument :  
BNA\_G  
ClientSampleId :  
BH5T9DL



Tgt Ion:276 Resp: 92364  
Ion Ratio Lower Upper  
276 100  
138 10.5 8.7 13.1  
277 23.3 18.2 27.2

Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay  
06/04/2024

Supervised By :mohammad  
ahmed  
06/05/2024

